

**Summer I 2006 MTH U115 APPLICATIONS IN ALGEBRA  
SYLLABUS**

**Section    Topic**

- 7.1        Sets
- 7.2        Venn Diagrams
- 7.3        Introduction to Probability
- 7.4        Basic Concepts of Probability
- 8.1        Multiplication Principle & Permutations
- 8.2        Combinations
- 8.3        Probability Applications of Counting Principles
- 2.3        Addition & Subtraction of Matrices
- 2.4        Matrix Multiplication
- 2.4        Organizing & Using Data in Matrices

**MIDTERM EXAM (Tentative Date – June 1)**

- 2.5        Matrix Inverses (2x2)
- 2.5        Using Matrix Inverses to Solve Systems of Equations
- Cryptography
- 10.1        Markov Chains
- Graphing Linear Equations
- Point of Intersection (Elimination & Substitution Methods)
- 3.1        Systems of Inequalities
- 3.2        Solving Linear Programming Problems
- 3.3        Applications of Linear Programming

**Important Dates**

- Monday 5/29 - Memorial Day
- Friday 6/9 - Last Day to Drop
- Thursday 6/22 - Last Day of Class
- Tuesday 6/27 1:00 PM - Final Exam